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APPLICATION NO	D. FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/623,396	07/18/2003	Hing "Thomas" Y. To	42P8816C	4650
8791	7590 02/09/2005		EXAM	INER
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD			LAU, TUNG S	
SEVENTH FLOOR		ART UNIT	PAPER NUMBER	
LOS ANGELES, CA 90025-1030			2863	
			DATE MAILED: 02/09/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/623,396	TO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tung S Lau	2863				
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR ITHE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communicated. If the period for reply specified above is less than thirty (30) days of 100 period for reply is specified above, the maximum statutory. Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no event, however, may a retion. s, a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MON y statute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 19 January 2005.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 1-9 is/are pending in the application 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 1,3,4 and 6-9 is/are rejected. 7) Claim(s) 2 and 5 is/are objected to. 8) Claim(s) are subject to restriction 	ithdrawn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection	to the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International E * See the attached detailed Office action for	uments have been received. uments have been received in A e priority documents have been Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage				
Attachment(s)		•				
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
 Notice of Draftsperson's Patent Drawing Review (PTO-9) Information Disclosure Statement(s) (PTO-1449 or PTO/Paper No(s)/Mail Date 		s)/Mail Date nformal Patent Application (PTO-152)				

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1, 3-4 and 6-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Manlove et al. (U.S. Patent 5,699,024).

Regarding claim 1:

Manlove discloses cells of an integrated circuit (IC) comprising: a method for current calibration of a plurality of I0 setting a global control value (Col. 2-3, Lines 55-35); providing the global value to the plurality of 1/0 cells to cause each of the plurality of 1/0 cells to output a logic voltage at a corresponding output pads and for each I0 cell (Col. 2-3, Lines 55-35); feeding back the logic voltage at the corresponding output pad to a comparator (Col. 1, Lines 20-47, Col. 2-3, Lines 55-35). comparing the logic voltage at the corresponding output pad with a reference voltage (Col. 2-3, Lines 55-35), and sinking current at the corresponding output pad based on result of the comparing (Col. 2-3, Lines 55-35, Col. 5-6, Lines 36-39).

Regarding claim 6:

Manlove discloses a method comprising: setting a global control value provided to the-a plurality of 1/0 cells to cause each of the plurality of 1/0 cells to output a

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logic voltage on a corresponding output pad (Col. 2-3, Lines 55-35); then, for each of the plurality of V0 cell: feeding back the logic voltage at the corresponding output pad to a comparator: setting a local value in a register device associated with the V0 cell in response to the global control value (Col. 1, Lines 20-47, Col. 2-3, Lines 55-35); comparing the logic voltage with a reference voltage (Col. 2-3, Lines 55-35), and setting a local value in a register device associated with a corresponding I/0 cell in response to the a global control value and result of-the comparing of the logic voltage and the reference voltage (Col. 2-3, Lines 55-35, Col. 5-6, Lines 36-39).

Regarding claim 3, Manlove discloses enabling additional driver bits to sink more current at the corresponding output pad if the logic voltage is higher than the reference voltage And disabling additional driver bits to sink less current at the corresponding output pad if the logic voltage is lower than the reference voltage (Col. 2-3, Lines 55-35fig. 3, unit 104); Regarding claims 4, 8, Manlove discloses sinking current at the corresponding output pad comprises modifying a local value 'stored in a register device associated with a corresponding 1/0 cell based on the comparing of the logic voltage and the reference voltage (Col. 2-3, Lines 55-35fig. 3, unit 104); Regarding claim 7, Manlove discloses enabling additional driver bits to modify the local value in the register device associated with the corresponding 1/0 cell in response to the comparison of the logic voltage and the reference voltage to sink more current at the corresponding output pad (Col. 5-6,

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Lines 35-39); Regarding claim 9, Manlove discloses shifting one and zero to modify local value (fig. 3, unit 174, 176).

Claim Objections

Claims 2 and 5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all the limitation of the base claim and any intervening claims.

The following is an examiner's statement of reasons for allowance: prior art fail to teach sinking current until the logic voltage at the output and the reference voltage are substantially equal, the register device is a counter.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

- 3. Applicant's arguments with respect to claims 1, 3-4 and 6-9 have been considered but are moot in view of the new ground(s) of rejection. However, applicant's arguments filed 1/19/2005 have been fully considered but they are not persuasive.
- A. Applicant's arguments with respect to claims 1, 3-4 and 6-9 have been considered but are moot in view of the new ground(s) of rejection.

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Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung S Lau whose telephone number is 571-272-2274. The examiner can normally be reached on M-F 9-5:30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on 571-272-2269. The fax phone numbers for the organization where this application or proceeding is assigned is 703-872-9306

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TL

John Barlow Supervisory Patent Examiner Technology Center 2800